

AquaTemp Submersible SDI-12 Temperature Sensor





Sutron's AquaTemp submersible temperature sensor is a rugged SDI-12 sensor designed to measure temperature of water, soil, and other liquids. The SDI-12 interface, high accuracy, and long-term reliability makes it easy to add temperature monitoring to existing stations.



*AquaTemp-x
("x" determines cable length)*



Applications



- Soil Temperature
- Streams
- Surface Water
- Stilling Wells
- Dams
- Aquaculture Tanks



Features



- ▶ SDI-12 Operation (V1.3)
- ▶ Tough UV-resistant, watertight polyurethane cable
- ▶ Stainless steel body with eyelet for weight or pull strings
- ▶ Flex fitting to protect cable
- ▶ Wide operating temperature range (-40° to +60°C)

EXCEPTIONAL ACCURACY
±0.1°C (-5° TO +45°C)



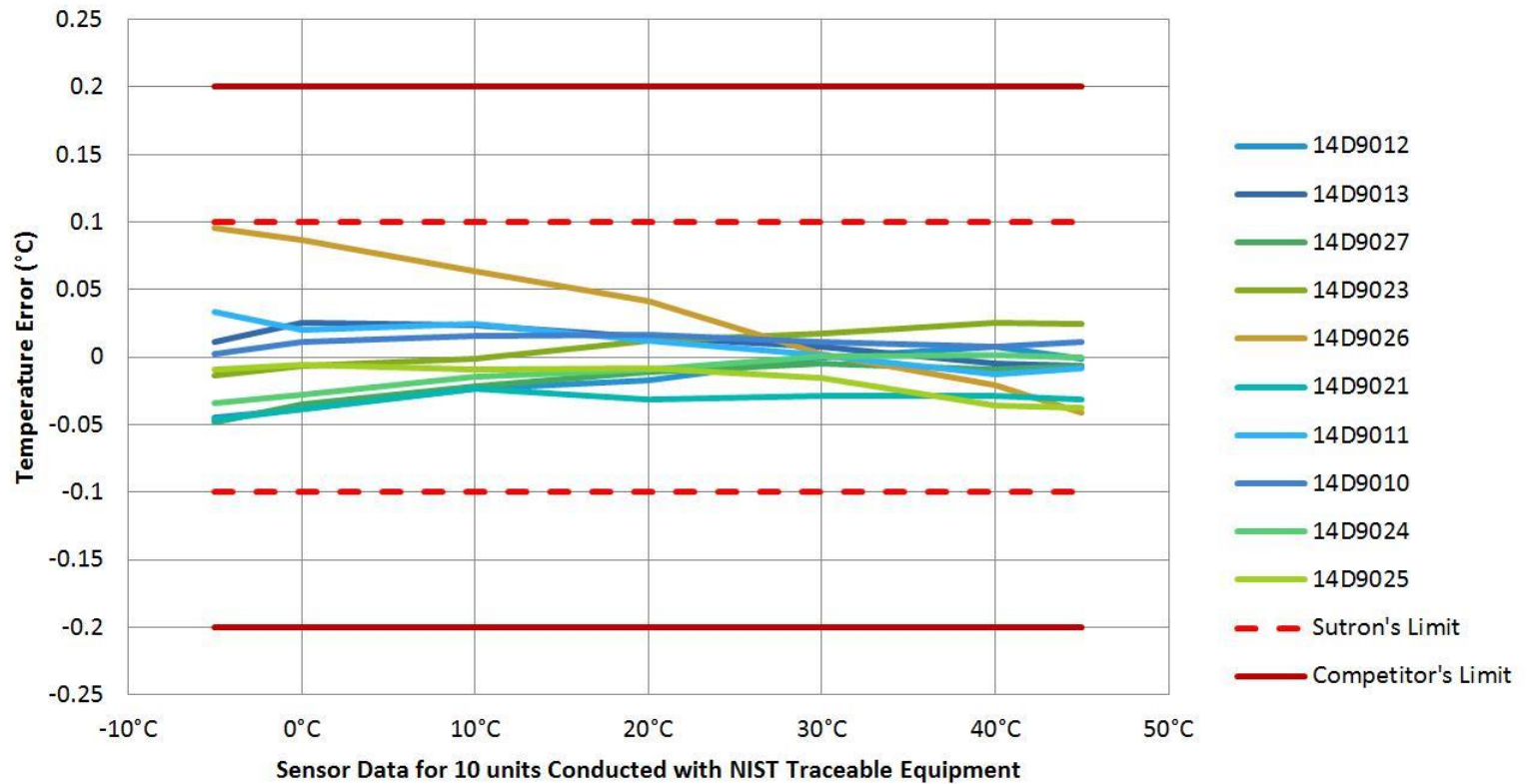
Rugged Design: AquaTemp in Ice



Accuracy Comparison



AquaTemp Performance of 10 units (-5°C to +45°C)





SPECIFICATIONS

Specifications subject to change without notice

Measurement Interval	1 second to 24 hours
Units	Celsius, Fahrenheit
High Accuracy Temperature Sensor	$\pm 0.1^{\circ}\text{C}$ (-5 to $+45^{\circ}\text{C}$)
Temperature Resolution	0.01 $^{\circ}\text{C}$
Operating Range	-40 to $+60^{\circ}\text{C}$
Quiescent Current	< 0.1 mA
Active Current	<5 mA
Input Voltage	7-16V
SDI-12 Operation	V1.3
Tough UV resistant polyurethane cable with waterblock	60 ft. standard
Diameter	0.63 inch
Device is capable of fitting through a standard 1 inch conduit with 8 inch factory bend corner	



Models & Options



ORDERING

Part Number	
AquaTemp-x	AquaTemp Submersible SDI-12 Temperature Sensor
Calibration Certificate	Optional add-on (Unit is calibrated with NIST traceable equipment)

X in the part number represents the number of feet of cable needed: 60, 100, 150, 200, 300 or any custom size the application requires. It is not recommended to go beyond 300 feet.

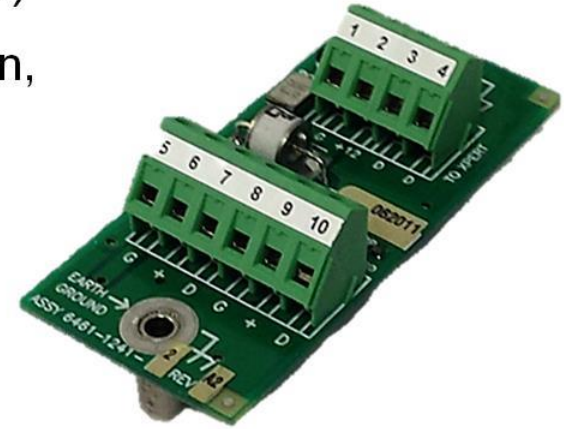
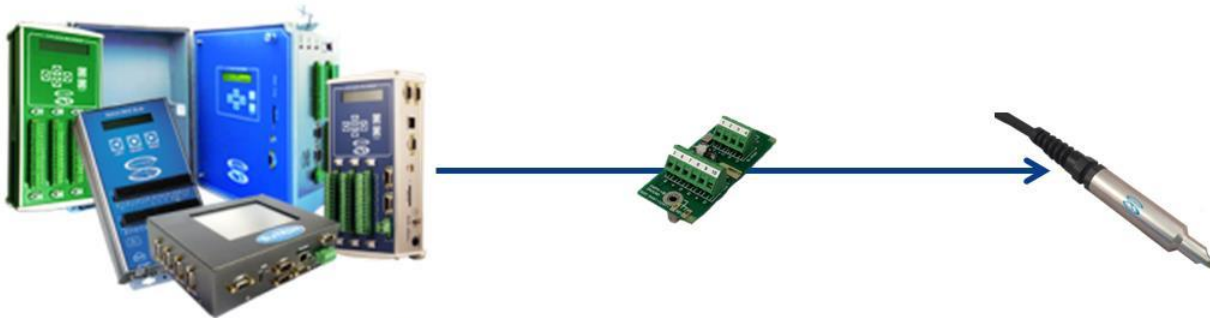


Recommended Accessories



SDI-12 Surge Protection Module (6461-1241)

Although the AquaTemp is built with SDI-12 surge protection, Sutron recommends additional security through the SDI-12 Surge Protection Module.



- Multi-stage circuitry
- Operating temperature
- Accepts wire sizes (input/output)
- Series resistance (Analog I/O)
- Power handling
- Clamping voltage

Automatically resets after surge

-40°C to +60°C

26-14 AWG

100 ohms

(8/20 μ s) 20 kAmps

36 V

